



Bureau of Environmental Health

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Conventional Onsite Sewage Disposal System Design Plan Requirements

The design of the disposal system must conform to the sizing, design, and location requirements set forth in COMAR 26.04.02 and Howard County Code Title 3 Subtitle 8. In addition, the following items must be shown on the plan:

1. Title box with the following title, *Onsite Sewage Disposal System Design Plan*.
The title box shall also include the street address, tax identification number, and subdivision name or property owner name(s).
2. The name, address, and telephone number of the owner, developer, and the person preparing the plan.
3. The date the plan was drawn, the plan scale (1:30 – 1:40), and a scaled vicinity map. Scales larger than 1:40 (examples 1:50, 1:100) require scale approval prior to plan submittal.
4. All property lines and dimensions.
5. Show all existing and proposed structures including stormwater management features.
6. All percolation test holes (pass or fail with corresponding test number or letter) and the approved sewage disposal area (SDA).
7. Field run topography at two-foot intervals. One-foot intervals are required for mound systems and systems with pipe depth less than two feet.
8. Illustrate the three (3) proposed well sites or 1500 sq. ft. well box with elliptical radius of 100 feet around each of the three (3) wells or the well box.
9. Illustrate streams, ponds, floodplains, 25% and greater slopes, and any other pertinent land features.
10. Illustrate the locations of all Onsite Sewage Disposal System (OSDS) components on the site Plan.
11. Include a cross section and details of all treatment tanks and pump tanks.

12. Include a profile drawing with all invert elevations necessary for installation of the initial system.
13. Show the location of the initial absorption system and two replacements with perforated pipe elevations.
14. The designing Professional Engineer or other qualified designer must sign the plan.
15. Low pressured dosed systems or other pumped systems must include pump station details including:
 - a. Total dynamic head calculations
 - b. Pump curve
 - c. Pump on, pump off, and alarm elevations
16. Low pressure dosed systems, including sand mounds and at-grade mounds must show all details necessary for installation of the lateral network and mound.

Required Plan Notes

1. Any change to the locations or depths to any components must be approved by the engineer and the Howard County Health Department prior to installation. A revised site plan may be required.
2. The maximum earth cover over the tank is 3 feet. Greater earth cover will require a heavy load bearing tank.
3. Electrical work for the installation must be performed by a licensed electrician.
4. The well (tag # _____) has been field located and is accurately shown.
5. All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and/or septic systems have been shown.